

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-13 cancelled.

14. (Previously presented) The cleaning system according to Claim 23, wherein $a_0=0.2771$, $a_1=-0.0042$, $a_2=-0.0094$, $a_3=0.0061$, $a_4=-0.2738$ and $a_5=-0.0377$; and $x_1=\sigma$ -moment M_2 , $x_2=\sigma$ -moment M_3 , $x_3=\sigma$ -moment M_4 , $x_4=f_{don}$, and $x_5=\Delta G_{Cosmo}$; and $n=5$.

15. (Cancelled)

16. (Previously presented) The cleaning system according to Claim 23, wherein at least 75% of said fragrance ingredients have a relative fabric affinity value (y) of at least 4.

17. (Previously presented) The cleaning system according to Claim 16, wherein at least 85% of said fragrance ingredients have a relative fabric affinity value (y) of at least 4.

18. (Previously presented) The cleaning system according to Claim 23, wherein at least 50% of said fragrance ingredients have a relative fabric affinity value (y) of at least 6.

19. (Previously presented) The cleaning system according to Claim 18, wherein at least 60% of said fragrance ingredients have a relative fabric affinity value (y) of at least 6.

20. (Previously presented) The cleaning system according to Claim 19, wherein at least 70% of said fragrance ingredients have a relative fabric affinity value (y) of at least 6.

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21. (Previously presented) The cleaning system according to Claim 23, wherein said fragrance system comprises additional additives selected from the group consisting of anti-microbial ingredients, UV filters, anti-static ingredients, optical brighteners, cooling agents, and warming agents.

Claim 22. (Cancelled)

23. (Currently amended) A cleaning system comprising:

- a) liquid CO₂, and
- b) a fragrance system, wherein said fragrance system comprises fragrance ingredients that are determined to be substantive to garments according to the following mathematical equation:

$$y=a_0+\sum a_n x_n$$

wherein y is defined as the predicted relative substantivity of an aroma chemical having a range of from about 1-7 with 7 being the most substantive;

wherein x_{1-n} are defined as molecular descriptors derived out of COSMO RS calculations;

wherein n is defined as number of descriptors used in the said equation,

wherein a_{0-n} are defined as coefficients derived from linear regression analysis;

wherein at least 60% of said fragrance ingredients have a relative fabric affinity value (y) of at least 4

wherein the ~~fragrance~~ ~~fragrances~~ ingredients are selected from the group consisting of:

benzaldehyde, methylbenzoate, 4,7-methano-3a,4,5,6,7,7a-hexahydro-5 (or 6)-indenyl-acetate ~~herbaflorat~~, phenylacetaldehyd 100%, terpinolene, eucalyptol, benzylacetate, cis- and

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trans-3,7,-dimethyl-2,6-octadienal CITRAL PURE, ~~myrcene supra~~, tricyclodecanyl isobutyrate,
3-(4-ethylphenyl)-2,2-dimethylpropanal ~~cyclabute~~, ~~floralozone~~, isobornylacetate, ethylene
dodecanedioate MUSK—C14, ~~CPD ketone~~ ~~cyclopentadecanolidone~~, di-menthylacetate
~~menthylacetate~~—RF, 2-tert-butylcyclohexylacetate AGRUMET—HC, aldehyde C10,
methyldihydrojasmonate HEDION, NEROLIONE, cyclohexylmethylcarbinolcrotonate
DATILAT, trans-2 decenal ~~decenal~~—trans-2, 2-methyl-3-(4-isopropylphenyl)propanal
~~cyclamenaldehyde~~, ethylen brassylate ~~ethylenbrassylate~~, iso-alpha methyl ionone ~~isoraldein~~ 70, 9-
hexadecen-16-olide ~~ambrettolide~~, 5-phenyl-3-methyl-2-pentenitrile ~~citronitril~~, 2-methyl-3-(4-
tert.-butylphenyl)propanal ~~lilial~~, adehyde C14, maltol, ~~coumarone H&R~~, vanillin, adehyde C12
methyl nonyl acetaldehyde MNA, linalool perfumery grade fine fragrance ~~linalool~~—FF,
ethylvanillin ~~Ethylvanilin~~, eugenol ~~Eugenol~~, 3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-
b]furan ~~ambrox-DI~~, Globalide 100%, cedryl methyl ether ~~Cedramber~~, Terpineol Alpha, 4-(4-
hydroxy-4-methylpentyl)-3-cyclohexene Lyrat, Geraniol—60, 2,6-dimethyl-2-heptanol
Freesiol/Corps 199, Neonitril H&R, Citronellol 950, 2-ethyl-4-(2,3,3-trimethyl-3-cyclopenten-
1-yl)-2-buten-1-ol, Sandolene—H&R, Mandaril, Sandel—E/Corps—760, profarnesol,
methylanthrenilate, hexahydroiraldein, benzylcinnamate, benzylsalicylate, Jasmol,
hydroxycitronellol, and (2E,7R,11R)-3,7,11,15-tetramethyl-2-hexadecen-1-ol PHYTOL.